

REPORT
OF THE
New Jersey State
Museum

1912

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ANNUAL REPORT
OF THE
NEW JERSEY STATE
MUSEUM.

Including the Indexes of the Reports of
1905, 1906, 1907, 1908, 1909,
1910 and 1911

1912

UNION HILL, N. J.
DISPATCH PRINTING COMPANY,

1913
C.

Commissioners of the New Jersey State Museum.

STATE COMMISSIONER OF EDUCATION, CALVIN N. KENDALL, *President.*

STATE GEOLOGIST, HENRY B. KUMMEL, *Secretary.*

PRESIDENT STATE BOARD OF AGRICULTURE, JOS. S. FRELINGHUYSEN.

PRESIDENT OF THE SENATE, JOHN D. PRINCE.

SPEAKER OF THE HOUSE, THOMAS F. McCRAN.

SILAS R. MORSE, *Curator.*

Heads of the Several Departments of the New Jersey State Museum

CALVIN N. KENDALL, COMMISSIONER OF EDUCATION,
Educational.

JACOB G. LIPMAN, PH. D., RUTGERS COLLEGE,
Agriculture.

HENRY B. KUMMEL, STATE GEOLOGIST,
Geology.

JOHN C. SMOCK, EX-STATE GEOLOGIST,
Forestry.

THOMAS J. HEADLEE, PH. D., STATE ENTOMOLOGIST,
Entomology.

JAMES T. MORGAN, DEPUTY OF BUREAU OF LABOR STATISTICS,
Manufactures.

HERBERT M. LLOYD, SECRETARY OF GEOLOGICAL SURVEY,
Archaeology.

Letter of Transmittal.

TRENTON, N. J., November 30th, 1912.

To the Honorable Woodrow Wilson, Governor of the State of New Jersey:

SIR.—I have the honor to present, for the Commissioners of the New Jersey State Museum, the annual report, including a report of the indexes of the reports of 1905, 1906, 1907, 1908, 1909, 1910 and 1911.

SILAS R. MORSE,

Curator.

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PART 1.

(7)

Curator's Report

The report this year consists mostly of the indices of the Report for 1905, "The Fish of New Jersey"; the Report for 1906, "The Amphibian and Reptiles of New Jersey"; the Report for 1907, "The Mammals of New Jersey"; the Report for 1908, "The Birds of New Jersey"; the Report for 1909, "The Insects of New Jersey"; the Report for 1910, "The Plants of Southern New Jersey. With Especial Reference to the Flora of the Pine Barrens"; and the Report for 1911, "The Crustacea (Crabs) of New Jersey." This is done, as several of the reports have supplements in other reports, and in this way the subject or name can be readily found.

It is the intention of the Museum Commission to place this report in the State and school libraries and institutions having a set of the Reports of the New Jersey State Museum on the Natural History Subjects. The report will contain an indices of the technical and common names and also the illustrations of these reports. We believe it will be a great benefit to those who wish to consult the reports.

THE REPORT FOR 1911.

The Museum Commission was greatly disappointed in the Report for 1911. We intended to have for the natural history part of the report a paper on "The Fresh and Salt Water Shell Fish of New Jersey." It was very nearly completed when the compiler of the paper was taken sick, and therefore could not finish this part of the report. So we then had to substitute for that part "The Crustacea of New Jersey," by Mr. Henry W. Fowler, of the Academy of Natural Sciences, at Philadelphia, who compiled the papers on "The Fish of New Jersey" and the paper on "The Amphibians and Reptiles of New Jersey." The paper on the Crustacea was intended for a later report, but Mr. Fowler kindly consented to prepare the paper at a great sacrifice to himself, as he was obliged to give up his vacation. On account of this delay the 1911 report is late in being distributed.

We hope to be able to have the Shell Fish paper ready for the next year's report.

10 REPORT OF NEW JERSEY STATE MUSEUM.

VISITORS.

The Museum is open during the hours that the State House is open to the public. A cordial invitation is extended to the people to visit the Museum. Many pupils of the schools take advantage of the Museum to study natural history. Classes from the public and private schools come chaperoned by teachers. The number of visitors during the past year has been larger than any previous year. The regret is that we do not have room enough to display the specimens to a good advantage, but we hope soon to have more room. A large part of the exhibits cannot be shown in our present rooms for want of space. A large part of the educational exhibit has to be stored where it cannot be seen, which is greatly regretted.

THE MUSEUM REPORTS APPRECIATED.

To show in part how the natural history reports of the New Jersey State Museum are appreciated we quote a few of the many letters we have received from prominent persons and educators:

Princeton, N. J.
February 14th, 1907.

S. R. MORSE, Esq.,
Curator New Jersey State Museum,
Trenton, N. J.

My Dear Sir:—

Please accept my sincere thanks for a copy of your last annual report on the fishes of New Jersey. I have examined it with great interest and do not doubt that I will find it in the future a valuable book of reference.

Yours very truly,

(Signed) GROVER CLEVELAND.

State of New Jersey,
Executive Department,
February 20, 1911.

S. R. MORSE.
My Dear Mr. Morse:—

I am obliged to you for your thoughtful kindness in sending me a copy of the report on insects of New Jersey, but I am sorry to say that inasmuch as I am at present living in a hotel, there is no place for me to keep books, and I would be very much obliged if you would keep reports intended for me on file in your office so that I may have access to them at some subsequent time.

Sincerely yours,

(Signed) WOODROW WILSON.

Mr. S. R. Morse,
Trenton, N. J.

February 28th, 1912.

MR. S. R. MORSE,
New Jersey State Museum,
Trenton, N. J.

Dear Mr. Morse:—

I thank you very much for sending me a copy of the last report of the New Jersey State Museum, "The Plants of New Jersey," which I will examine with great interest.

Yours very truly,

(Signed) JOHN D. PRINCE.

State of New Jersey,
Senate Chamber,
John D. Prince, Pres.

Plainfield, N. J., February 21st, 1912.

PROF. S. R. MORSE,
Curator State Museum,
Trenton, N. J.

Dear Prof. Morse:—

It was indeed a pleasure to receive from you one of the last Museum reports, "The Plants of New Jersey," and I sincerely thank you for your courtesy for keeping my name on your mailing list. If you can do so conveniently and consistently, I will appreciate two additional copies.

Sincerely yours,

(Signed) ERNEST R. ACKERMAN.

HON. S. R. MORSE,
New Jersey State Museum,
Trenton, N. J.

Dear Mr. Morse:—

The last report of the State Museum has been received. It is an interesting and instructive report. You are doing a good work.

Very truly yours,

E. C. STOKES.

Commonwealth of Virginia,
Governor's Office,
Richmond, April 27th, 1912.

S. R. MORSE, Esq., *Curator,*
Trenton, N. J.

Dear Mr. Morse:—

I have received the last report, "The Flora of Southern New Jersey," and find it a very interesting and able production.

Very truly yours,

(Signed) WM. HODGES MANN,
Governor.

UNITED STATES SENATE,
WASHINGTON.

Elizabeth, N. J., October 30, 1906.

PROF. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

My Dear Sir:—

Please accept my thanks for the Report of the State Museum, and your letter of the 29th in regard thereto, duly received. I am very glad to have this report; it is a very interesting and instructive publication.

Very truly yours,

(Signed) JOHN KEAN.

George M. McCarthy,
State Tax Commission New Jersey,
February 26, 1912.

MR. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

Dear Mr. Morse:—

The report for 1910 is one of the finest pieces of work of its kind issued by the State.

Very truly yours,

(Signed) GEORGE M. McCARTHY.

TESTIMONIALS.

13

Trenton, N. J., October 12, 1906.

Mr. Dear Mr. Morse:—

Permit me to thank you for the very valuable and desirable books you sent me. I appreciate your thoughtfulness very much.

Sincerely yours,

(Signed) BARTON B. HUTCHINSON.

Counselor at Law, Trenton N. J.

142 Broad St., Elizabeth, N. J.
March 12, 1903.

My Dear Mr. Morse:—

I am in receipt of copies of your Annual Report as Curator of the Museum. I have looked over them with a great deal of interest and pleasure and congratulate you on the preparation of such an interesting work.

Yours truly,

(Signed) FOSTER M. VOORHEES.

November 2nd, 1907.

HON. S. R. MORSE,
Trenton, N. J.

My Dear Mr. Morse:—

Thank you very much for your pleasant note of October 31st, and a copy of your last Museum Report, which I am very glad to have, and which I expect to take much pleasure in looking over as soon as the campaign is ended.

With best wishes, believe me,

Yours sincerely,

(Signed) FRANKLIN MURPHY.

DEPARTMENT OF COMMERCE AND LABOR.
BUREAU OF FISHERIES.

Washington D. C., October 1, 1908.

DR. S. R. MORSE,
Curator New Jersey State Museum,
Trenton, N. J.

Sir:—

Allow me to express my appreciation of the receipt of the Annual Report of the New Jersey State Museum containing the mammals of New Jersey, and other supplemental reports.

It makes an excellent addition to the volumes of Fishes and Amphibians already received from you and form handy reference books during biological work.

Sincerely,

(Signed) T. E. B. POPE.

14 REPORT OF NEW JERSEY STATE MUSEUM.

J. S. Frelinghuysen,
76 William Street, New York,
October 19, 1906.

MR. S. R. MORSE,
*Curator New Jersey State Museum,
Trenton, N. J.*

My Dear Sir:—

I have your favor of the 11th inst., and beg to thank you most sincerely for your kindness in sending me copy of the State Museum Report.

Yours very truly,

(Signed) J. F. FRELINGHUYSEN.

LOUISIANA STATE MUSEUM,
NEW ORLEANS.

September 28th, 1908.

PROF. S. R. MORSE,
*Curator New Jersey State Museum,
Trenton, N. J.*

Dear Sir:—

In the name of the Board of Curators of the Louisiana State Museum, I beg to extend to you our thanks for your splendid report of the New Jersey State Museum, which is a very valuable contribution to the natural history of the State.

We are also interested in the report of the participation of the museum in the Jamestown Exposition, and your very fine views of the exhibit vividly recall to the writer's mind your splendid display which we have inspected with much pleasure.

You and your museum are certainly to be congratulated upon the results that you have achieved and the promising future that is before you.

Again thanking you for the report, we remain,

Yours truly,

(Signed) ROBERT GLENK, Sec'y.

STATE OF NEW JERSEY,
SENATE CHAMBER.

Paterson, N. J., October 19th, 1906.

S. R. MORSE, Esq.,
*Curator State Museum,
Trenton, N. J.*

My Dear Mr. Morse:—

I received your state museum report and am very much pleased with it. I thank you for sending me these copies, as I am very much interested in the fish of New Jersey.

Yours very truly,

(Signed) WOOD McKEE.

TESTIMONIALS.

15

STATE OF NEW JERSEY,
FISH AND GAME COMMISSIONERS.

Long Branch, N. J., October 18, 1906.

MR. S. R. MORSE,
Trenton, N. J.

My Dear Mr. Morse:—

Your report is going to be in great demand by libraries, museums, natural history scientists and school teachers. I have had a great many inquiries about it already. We could also use it as the best work we have on fish and game published by the State. I could make that take the place of the book formerly published by the Commission.

Yours very truly,

(Signed) BENJ. P. MORRIS,

THE PRUDENTIAL INSURANCE COMPANY OF AMERICA.

Home Office, Newark, N. J.,
October 30, 1906.

Dear Sir:—

I am very much pleased to have the copy of the State Museum Report which you were good enough to send me, and I beg to thank you for your courtesy.

Believe me,

Very truly yours,

(Signed) JOHN F. DRYDEN,
President.

New York, October 29, 1906.

S. R. MORSE, Esq.,
Curator, State House,
Trenton, N. J.

Dear Mr. Morse:

I received the report of the State Museum and thank you for the same. It is very fine.

Very truly yours,

(Signed) EDMUND W. WAKELEE.

NEW YORK AQUARIUM.

Battery Park,
New York, October 12, 1909.

MR. S. R. MORSE, *Curator,*
N. J. State Museum,

My Dear Sir:

I am indebted to you for a copy of your Museum document on the Birds of New Jersey, for which please accept my thanks and congratulations.

Very sincerely yours,

(Signed) C. H. TOWNSEND,
Director.

16 REPORT OF NEW JERSEY STATE MUSEUM.

NEW YORK STATE EDUCATIONAL DEPARTMENT.
SCIENCE DIVISION.

Director's Office, State Hall,
Albany, N. Y., October 9, 1908.

S. R. MORSE, Esq.,
Curator, New Jersey State Museum,
Trenton, N. J.

My Dear Sir:

I beg to acknowledge the receipt of your report on the mammals of New Jersey. In my judgment this is a very useful and interesting work and does distinctive credit to your institution.

Very truly yours,

(Signed) JOHN M. CLARKE,
Director.

STATE OF MAINE.

OFFICE OF CHAIRMAN OF COMMISSIONERS OF INLAND FISHERIES AND GAME.
Augusta, Maine, October 12, 1906.

PROF. S. R. MORSE,
Curator, New Jersey State Museum,
Trenton, N. J.

Dear Sir:

I have received copy of your Museum's last report—"The Fish of New Jersey," and wish to thank you for the same. It is a very valuable publication, and will be very handy for reference in our work.

Thanking you for your kindness in thus remembering us, I am,

Yours truly,
(Signed) LEROY T. CARLETON,
Chairman.

COMMONWEALTH OF PENNSYLVANIA.

DEPARTMENT OF AGRICULTURE—DIVISION OF ZOOLOGY.

Harrisburg, Pa., February 10, 1911.

PROF. S. R. MORSE,
Curator of New Jersey State Museum,
Trenton, N. J.

Dear Sir:

I congratulate you and Professor Smith upon the recent issue of a revised catalog of "The Insects of New Jersey." I write to ask if you will kindly favor me by sending me a personal copy. We are intending to follow your good work in which your State has been such an excellent pioneer, as we hope to have legislation for the publication of such a catalog.

Hoping to reciprocate favors in full in any way possible, and assuring you of my high appreciation of your service, I am,

Very truly yours,

(Signed) H. A. SURFACE,
Economic Zoologist.

TESTIMONIALS.

17

COURT OF ERRORS AND APPEALS OF NEW JERSEY.

16th October, 1909.

My Dear Sir:

I have received the Report for 1909. As I am particularly interested in the question of New Jersey birds and New Jersey fishes, the book was of special value to me.

The report is a credit to the State, I thank you for the copy you sent me.

Faithfully yours,

(Signed) JAMES B. DILL.

To:

MR. SILAS R. MORSE,
Curator, New Jersey State Museum,
Trenton, New Jersey.

NEW JERSEY AGRICULTURE EXPERIMENT STATION,

New Brunswick, N. J.

MR. S. R. MORSE,
Trenton, N. J.

My dear Mr. Morse:

Last evening, I spent part of my time looking over your report, and desire to congratulate you upon the completeness of the report and the excellence of the cuts accompanying it. It is surely a great credit to the State.

Very truly yours,

(Signed) E. B. Voorhees,
Director.

Publications Received by the New Jersey State
Museum.

Annual Report of the Philadelphia Museums, 1911.
Eighth Annual Report of the Newark Shade Tree Commission.
Museums of the Brooklyn Institute of Arts and Science Report for 1911.
Ecological Successions by Victor Shelford.
University of Illinois Bulletin No. 52.
University of Illinois Bulletin No. 51.
University of Illinois Bulletin No. 50.
Zoological Society Bulletin No. 52.
University of Illinois, Agricultural Experimental Station Bulletin No. 152.
American Museum of Natural History, General Guide of Exhibition Hall. No. 35.
University of Illinois, Agricultural Experiment Station Circular No. 155.
Camden Board of Trade Journal, January, 1912.
University of Illinois Bulletin No. 53.
The American Museum of Natural History Journal, Vol. 12, No. 1.
Zoological Society Bulletin No. 49.
Bulletin of the Pennsylvania Museums.
Annual Report of the Philadelphia Museums, 1910.
Annual Report of the Philadelphia Museums, 1909.
Annual Report of the Philadelphia Museums, 1908.
Annual Report of the Philadelphia Museums, 1907.
Annual Report of the Philadelphia Museums, 1905.
University of Illinois Bulletin No. 54.
University of Illinois, Agriculture Experiment Station, Bulletin No. 153. Abstract.
University of Illinois, Agriculture Experiment Station, Bulletin No. 154.
Camden Board of Trade Journal, February, 1912.
University of Illinois Bulletin No. 55.
Forty-second Annual Report of the Trustees of the American Museum of Natural History.
Bulletin of the Charleston Museum, February, 1912. Vol. 12, No. 2.
Camden Board of Trade Journal, March, 1912.
Bulletin of the New York Botanical Garden.
Bulletin of the Charleston Museum. Vol. 13, No. 3.
University of Illinois Bulletin No. 56.
University of Illinois Bulletin Soil Report No. 1.
The American Museum of Natural History, Journal Vol. 12, No. 3.
Camden Board of Trade Journal, April 1912.
University of Illinois Agriculture Experiment Station. Bulletin No. 155.
Bulletin of the Pennsylvania Museum, April, 1912.
Zoological Scientific Contribution of the New York Zoological Society.
Quarterly Journal of Experimental Physiology, Vol. 5, No. 1.
Studies of Sex-Determination in Amphibians.
The Effect of Some Amido-Acids on the Development of the Eggs of Arbacia
and of Chaetopterus.
U. S. Department of Agriculture, Experiment Station Record, Vol. 26, No. 5.
Smithsonian Institution, U. S. National Museum, Bulletin 78.
Bulletin of the Detroit Museum of Art.
American Museum Journal, Vol. 12, No. 4.

University of Illinois, Bulletin No. 59.
Camden Board of Trade Journal, May, 1912.
Zoological Society Bulletin, New York, Vol. 16, No. 51.
American Museum of Natural History, Vol. 12, No. 5.
The Chemical Analysis of the Ash and Smooth Muscle, Wistar Institute.
U. S. Department of Agriculture, Biological Survey, Bulletin No. 42.
University of Illinois, Bulletin No. 58.
Camden Board of Trade Journal, June, 1912.
University of Illinois, Bulletin No. 60.
Bulletin of the Pennsylvania Museum, July, 1912.
Zoological Society Bulletin, New York, Vol. 16, No. 52.
University of Illinois Bulletin, Agriculture Experiment Station, No. 158.
University of Illinois Bulletin, Agriculture Experiment Station, No. 157.
University of Illinois Bulletin, Agriculture Experiment Station, No. 156.
University of Illinois Bulletin, Agriculture Experiment Station, Soil Report No. 2.
U. S. Department of Agriculture, Farmer's Bulletin 510, Game Laws for 1912.
U. S. Department of Agriculture, Bureau of Biological Survey Circular 88.
Camden Board of Trade Journal, August, 1912.
Camden Board of Trade Journal, September, 1912.
N. Y. Zoological Society, Vol. 1, No. 10.
Industrial Philadelphia, Foreign Trade Bureau.
N. Y. Zoological Society Bulletin, Vol. 16, No. 53.
Camden Board of Trade, October, 1912.
U. S. Department of Agriculture, Bureau of Biological Survey, Circular No. 87.
Bulletin of the Penn. Museum, October, 1912.
Bulletin of the Detroit Museum of Art, Vol. 6, No. 4.
Bulletin of the Wisconsin Natural History Society, Vol. 9, No. 4.
University of Illinois, Agriculture Experiment Station, Bulletin No. 151.
Report of the Forestry Department, Indiana, 1911.
Seventh Annual Report of the Newark Shade Tree Commission.
Educational Appliances for the Instruction of Natural History.
University of Illinois Annual Register, 1911-1912.
The Training School at Vineland, 1911.
The Detroit Museum of Art, Annual Report.
State of New Jersey, Road Commissioner's Report.
Museums of the Brooklyn Institute of Art and Sciences, Report.
Proceedings of the American Association of Museums, Vol. 9.
Report of the Illinois State Museum of Natural History.

Additions to the Museum Specimens by Purchase

BIRDS.

Audubon's Shear Water, Female.
Henslow's Sparrow, Male.
Glossy Ibis, Male and Female.
Scissor-tailed Flycatcher, Male and Female.
Blue-gray Gnatcatcher, Male.
European Woodcock, Male and Female.
Passenger Pigeon.

MAMMALS.

Two Fawns.
Buffalo Head.
Elk Head.
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Jumping Mouse.
Ground Squirrel.
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Black Woodchuck.

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PART 2.

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Few insects have popular names that are definitely applicable to one species only. The same insect may be known under different names in different parts of the State, and the same name is often applied to quite different insects. Quite usually the food plant is associated with a general term, as wheat louse, melon louse, apple louse, etc., etc. Any references to popular terms of this character must necessarily be somewhat indefinite, because there are half a dozen species of plant lice on apple, two or three dozen species of galls on oak and so on. Throughout this list I have given the popular names in general use in this State, and the index gives also a number of the crop headings with the chief pests infesting them.

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